MEMBRANE MODULE

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Abstract of JP11333265

PROBLEM TO BE SOLVED: To prevent a network matter from undergoing creap deformation end an outar surface of a membrane from being damaged by the network matter by amploying the network mettar having a string woven in a cylindrical shape, which string is made from e thermoplastic rasin having a thermal deformetion tamperature not less than a spacified value, in a membrane module preparad by covering a plurality of hollow fiber membranas with the network metter and housing them in e case. SOLUTION: A plurality of hollow fiber membranes 11 ara perellelly bundled and its outer circumference is covered with e network metter 12 and they ara housed within a cylindrical case 13 and both ends thereof ere filled with a haat resistant cast resin 14 so as to constitute a mambrane module. In this case, the network matter 12 is formad by weaving strings of a thermoplastic resin having thermal deformation temperature of 150 deg.C or higher, e.g. polysulfone or tha lika in a cylindrical shap e so as to prevent creep deformation and is partially fusad so as to enhance strength. The cross section of the string is formed in a round shape so that an outer surface of a membrane is prevented from being damaged by the network matter 12. A raw solution is allowed to flow through an inlet 15 and permaate through the hollow fiber membrane 11 and then extracted from an outlet 17 and a concentrated solution is extracted from an outlat 16.